No.



9600061

TO ALL TO WHOM THESE; PRESENTS; SHAME, COME;

Pioneer Hi-Bred International, Inc.

Thereas, there has been presented to the

#### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW INSUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IS THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPONDUE EXAMINATION MADE, THE SAID APPEICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CRETIFICATE OF PLANTS AREEN, PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANTS FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY ASPROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR COPAGATION OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES OR USING IT IN PRODUCING A HYBRID OR DIFFERENT LYTHEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT, 1542, AS D.7.U.S.C. 2321 ET SEQ.)

SOYBEAN

'9323'

In Testimony Merest, I have hereunto set my hand and caused the seal of the Hant Natiety Itolection Office to be affixed at the City of Washington, D.C. this thirtieth day of June in the year of our Lord

	n all reproductions.		FORM APPROVED - OMB NO. 0581-0
U.S. DEPARTMENT OF ACRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION - PLANT VARIETY PROTECTION	A OFFICE	The following statements are mu 1974 (5 U.S.C. 552a).	de in accordance with the Privacy Ac
APPLICATION FOR PLANT VARIETY PROTECTI	ION CERTIFICATE	Application is required in order certificate is to be issued (7 U.S. until certificate is issued (7 U.S.)	to determine if a plant variety protec C. 2421). Information is held confider C. 2426.
1. NAME OF APPLICANT(S) (see it is to appear on the Certificate)	ament un reverser	2. TEMPORARY DESIGNATION OR	3. VARIETY NAME
Pioneer Hi-Bred International, In	c.	EXPERIMENTAL NUMBER	9323
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and C	Country	6. TELEPHONE (include area code)	
700 Capital Square			FOR OFFICIAL USE ONLY
400 Locust St.	•	515/270-3582	9600061
Des Moines, IA 50309		6. FAX (include area code)	F DATE
		515/253-2288	I UAIS
OTNUC AND		320,250 2200	No Nev 22 1995
. GENUS AND SPECIES NAME	8. FAMILY NAME (Bots	•	FILING AND EXAMINATION FEE:
Glycine Max	Leguminos	sae	£ • 2450 ee
. CROP KIND NAME (Common name)	· · · · · · · · · · · · · · · · · · ·		E DATE
Soybean			* NOV 22 1995
D. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANI COrporation	ZATION (corporation, partners	hip, essociation, etc.) (Common name)	C CERTIFICATION FEE:
. IF INCORPORATED, GIVE STATE OF INCORPORATION			t t de
Iowa		12. DATE OF INCORPORATION 1926	E DATE
NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO S	ERVE IN THIS APPLICATION		
John Grace	Mike Roth (	(CODY)	14. TELEPHONE (include area code)
7300 NW 62nd Ave.	700 Capital	Square	515/270-3582
PO Box 1004	400 Locust		16. FAX (include area code)
Johnston, IA 50131-1004	Des Moines,	IA 50309	515/253-2288
CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Souther	M. An about all and a second		313/233-2200
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# Exhibit A: Origin and Breeding History

Breeding History of 9323 Soybean

Lw	K. Nov.		
26	Nov.	ŧ	447

1990 (Summer) The cross was made between  $\overline{\text{MB59372}}$  and  $F_1$  of W20 X A3205 in Iowa. The stock number 90002 was assigned to identify the population created by this cross.

1990-91 (Winter) The  $F_1$  and  $F_2$  generations of cross 90002 was advanced by modified single seed descent at Salinas, Puerto Rico.

1991 (Summer) The  $F_3$  generation of cross 90002 was grown at Johnston, Iowa where  $F_3$ -derived  $F_4$  plants were selected and threshed individually.

1991-92 (Winter) Selected plants were screened for race 7 of phytophthora root rot and also screened for tolerance to sulfonylurea herbicides. Plant number 9946 was selected and increase in Salinas, Puerto Rico in a short row. Plant number 9946 was designated '90002-113'.

1992 (Summer) 90002-113 was tested in the preliminary yield trial "JHD310ST" in Iowa. Based on superior yield performance, 90002-113 was advanced.

1992 (Winter) Purification was initiated from a bulk of seed sent to Chile where individual plants were selected and threshed individually.

1993 (Summer) 90002-113 was tested in the wide area trial "JHB302ST". Based on superior yield performance 90002-113 was advanced and designated 'XB32E'.

Purification rows were grown at Johnston, Iowa. Offtype rows discarded (based on Phytophthora root rot resistance, sulfonylurea herbicide tolerance, and other agronomic traits) and selected sublines bulked to form the original breeder seed lot.

1993 (Winter) A 4.0 acre increase of the original breeder seed lot was increased in Chile.

1994 (Summer) 'XB32E' was grown in wide area tests across the midwest; experiments JHA3E000, NPA3E000, MLA3E000, LPA3E000, SJA3E000, and CFA3E000. Based on superior yield performance, resistance to sulfonylurea herbicides, and resistance to Phytophthora root rot, 'XB32E' was released as Pioneer 9323. Pioneer's Parent Seed Department assumes responsibility for line maintenance, growing 167 acres.

9323 has undergone 3 years of testing and purification and has been observed to be uniform and stable for all plant traits from generation to generation, with no evidence of variants.

### Exhibit B: Novelty Statement

To our knowledge, soybean variety '9323' is novel compared to other commercial cultivars in that it contains the Rps, k gene for multi-race resistance to Phytophthora root rot and also contains the Als1 gene for tolerance to higher application rates of sulfonylurea herbicides, such as Classic and Pinnacle, To our knowledge, no other commercial soybean cultivar contains both genes.

To our knowledge, no other commercial soybean with black hile.

Leik . 26 May 1998

EXHIBI (Soybe

FORM APPROVED: OMB

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVES FOCK, MEAT, STAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

# OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S)	TEMPORARY DECISION	Iv	
Pioneer Hi-Bred International, Inc.	TEMPORARY DESIGNATION	VARIETY NAME 9323	
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code	l l		
700 Capital Square	•		HAL USE ONLY
400 Locust Street		PVPO NUMBER	0.004.4
Des Moines, IA 50309			00061
Choose the appropriate response which characterizes the varing your answer is fewer than the number of boxes provided, Starred characters * are considered fundamental to an adequate when information is available.	Diace a zero in the first how wi	han mumbaais A aa la	
1. SEED SHAPE:			
	Ĭ		
	j <b>r</b> j		
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	2 = Spherical Flattened (L 4 = Elongate Flattened (L	_/W ratio > 1.2; L/T rat /T ratio > 1.2; T/W >	io = <b>&lt;</b> 1.2) 1.2)
★ 2. SEED COAT COLOR: (Mature Seed)			<del></del>
1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other (S	pecify)	
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)			
2 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebsoy'	'; 'Gasoy 17')		
4. SEED SIZE: (Mature Seed)			· · · · · · · · · · · · · · · · · · ·
Grams per 100 seeds			
5. HILUM COLOR: (Mature Seed)			
6 1= Buff 2= Voltage	Gray 5 = Imperfect Black	6 = Black	7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)			
1 = Yellow 2 = Green	, <i>,</i>		
7. SEED PROTEIN PEROXIDASE ACTIVITY:			
2 1 = Low 2 = High			
8. SEED PROTEIN ELECTROPHORETIC BAND:			
1 = Type A (SP1 <sup>a</sup> ) 2 = Type B (SP1 <sup>b</sup> )			
			and the second s
9. HYPOCOTYL COLOR:			
1 = Green only ('Evans'; 'Davis') 2 = Green with bro 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Cok	onze band below cotyledons ('Woo er Hampton 266A')	odworth"; "Tracy")	
0. LEAFLET SHAPE:		<del></del>	
3 1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specify)		

	te LEAFLET SIZE:		9/000
	2 1 = Small ('Arnsoy 71'; 'A5312')	2 = Medium (*Corsoy 79'; *Gasoy 17')	96000
	3 = Large ('Crawford'; 'Tracy')		
	12. LEAF COLOR:		
	1 = Light Green ('Weber'; 'York')	2 = Medium Green ('Corsoy 79'; 'Braxton')	
	3 = Dark Green ('Gnome'; 'Tracy')		
<u>_</u> _	13. FLOWER COLOR:		
	Tar Flower Colon:		
	1 = White 2 = Purple	3 = White with purple throat	USD
<b>A</b> 1	I4. POD COLOR:	and the second s	1 € C
	1 1 = Tan 2 = Brown	3 = Black	II.
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<b>*</b> 1	5. PLANT PUBESCENCE COLOR:	C/1	
	2 1 = Gray 2 = Brown (Tawny)	· · · · · · · · · · · · · · · · · · ·	0
10	6. PLANT TYPES:		
	1 = Slender ('Essex'; 'Amsoy 71')	2 = Intermediate ('Amcor'; 'Braxton')	4
	3 = Bushy ('Gnome'; 'Govan')		•
	7. PLANT HABIT:		
A 1/	. FLANT HABIT:	:	
	1 = Determinate ('Gnome'; 'Braxton') 3 = Indeterminate ('Nebsoy'; 'Improved P	2 = Semi-Determinate ('Will')	
	3 - indeterminate ( ivensoy ; improved P	elican')	
<del></del>	. MATURITY GROUP:		<u></u>
·			
	0 6 1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = VII	4=I 5=II 6=III 7=IV 8=V	•
		III 12 = IX 13 = X	
19.	DISEASE REACTION: (Enter 0 = Not Tested: 7 =	Succeptible: 2 = Recipront	
_	BACTERIAL DISEASES:		
×	Bacterial Pustule (Xanthomonas phaseoli v	ar. sojensis)	
*	1 Bacterial Blight (Pseudomonas glycinea)		
_	0 Wildfire (Pseudomonas tabaci)		
	-		
	FUNGAL DISEASES:		
*	Brown Spot (Septoria glycines)		
	Frogeye Leaf Spot (Cercospora sojina)	19 11 11 11 11 11 11 11 11 11 11 11 11 1	
*			na a tab
	Race 1 Race 2 Ra	ice 3 0 Race 4 0 Race 5 Other (Specify)	KANAAA
	Target Spot (Corynespora cassiicola)		
	Downy Mildew (Peronospora trifoliorum val	t. manshurica)	· · · · · · · · · · · · · · · · · · ·
	<del></del>	• ************************	
	O Powdery Mildew (Microsphaera diffusa)		·
*	2 Brown Stem Rot (Cephalosporium gregatum	🖊 - Baran B	
	O Stem Canker (Diaporthe phaseolorum var. ca	nulivora)	
	U J		

19. DISEASE REACT	ION: (Enter 0 = Not Tested; 1 = Susceptible;	2 = Retistant) (Continued)		
	ASES: (Continued)		ल को कालकु≱ । चार्	
★ 1 Pod and S	Stem Blight <i>(Diaporthe phaseolorum</i> var <b>: sojae)</b>	i.		
0 Purple Se	ed Stain (Cercospora kikuchii)			
1 Rhizoctor	nia Root Rot (Rhizoctonia solani)			
Phytophti	nora Rot <i>(Phytophthora megasperma</i> var. sojae	j		
★ 2 Race 1	2 Race 2 2 Race 3 2	Race 4	5 0 Race 6	2 Race 7
2 Race 8	2 Race 9 Other (Specify)			·
VIRAL DISEASE	ES:			
Bud Blight	(Tobacco Ringspot Virus)			
1 Yellow Mo	saic (Bean Yellow Mosaic Virus)			
★ I Cowpea Mc	osaic (Cowpea Chlorotic Virus)			
Pod Mottle	(Bean Pod Mottle Virus)			
* 1 Seed Motti	(Soybean Mosaic Virus)			
NEMATODE DIS	EASES:			
Soybean Cy	st Nematode (Heterodera glycines)			•
★ 0 Race 1	0 Race 2 1 Race 3 0	Race 4 Other	(Specify)	
0 Lance Nema	atode (Hoplolaimus Colombus)			_
★ 0 Southern Re	oot Knot Nematode (Meloidogyne incognita)			
★ 0 Northern Ro	oot Knot Nematode (Meloidogyne Hapla)			
0 Peanut Root	Knot Nematode (Meloidogyne arenaria)			
0 Reniform Ne	ematode (Rotylenchulus reniformis)			
OTHER DIS	EASE NOT ON FORM (Specify):			
	SPONSES: {Enter 0 = Not Tested; 1 = Suscep	otible; 2 = Resistant)		
★ 1 Iron Chlorosi	s on Calcareous Soil			
2 Other (Specif	Y) Tolerant to Sulfonylurea H	Herbicides (STS)		
21. INSECT REACTION:	(Enter 0 = Not Tested; 1 = Susceptible; 2 = Re	esistant)		
0 Mexican Bean	Beetle (Epilachna varivestis)	and the second of	<b></b>	
	opper (Empoasca fabae)		•	
Other (Specifi	A Company of the Comp	•		
				•
	RIETY MOST CLOSELY RESEMBLES THA	T SUBMITTED.		
CHARACTER Plant Shape	NAME OF VARIETY	CHARACTER	NAME OF V	ARIETY
Leaf Shape	9342	Seed Coat Luster	9342	
Leaf Color	9343	Seed Size	9343	
Leaf Size	9313 9343	Seed Shape	9231	
		Seedling Pigmentation	9342	
			i i	. [1

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VARIETY	NO. OF PLANT DAYS LODGING		CM PLANT	LEAFLETSIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
	MATURITY SCOP	SCORE	ORE HEIGHT	CM Width	CM Length	% Protein	% Oii	SEEDS	POD
9323 Submitted	125.7	1.8	91	-		42.6	20.9	14	3
9342 Name of Similar Variety	128.7	1.8	89	· · · · · · · · · · · · · · · · · · ·		41.9	20.6	14	3

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci 3: 420-421
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

# Exhibit D: Additional Description of Variety

In Exhibit C we have identified 9323 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle. This does not mean that we consider 9323 to be worse than other varieties of similar maturity in reaction to these challenges. Rather, we have chosen to be conservative and have identified 9323 as "susceptible".

Variety 9323 is an early group III variety. If group III maturities are divided into tenths, the relative maturity of 9323 is 3.2..

Isozyme information for 9323:

# Exhibit E: Statement of the Basis of Applicants Ownership

Variety 9323 was originated and developed by plant breeders (U.S. nationals) from whom, by agreement, Pioneer Hi-Bred Int'l, Inc. has obtained exclusive rights to 9323. No rights to such invention, discovery or development are retained by the plant breeder or any other party.